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DMX512 DECODER

LT-903-DIP



2 kinds of DMX interfaces Shortcut / Over load protection





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Product Introduction:

- 1. Designed with 3 channels output, and Max. 8A current per channel, up to 576W output
- 2. Support 2 kinds of DMX ports: 3-pin XLR, RJ45.
- 3. With RDM remote management protocol, the operations can be completed via the RDM master console, such as parameters browsing & setting, DMX address setting, equipment recognition, etc.
- 4. With shortcut protection and over load protection, as well as warning function when













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Technical Specs:

LT-903-DIP

DMX512/RDM

DMX Interface: 3-pin XLR, RJ45

Input Voltage: 12~24Vdc

Current Load: 8A × 3CH Max. 24A Output Power: (0~96W...192W) × 3CH

Max. 576W

Shortcut / Over load

Working Temp.:-30°C~65°C

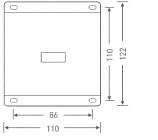
Dimensions: L122×W110×H37mm

Package Size: L127×W123×H41mm

Weight (G.W.): 550g

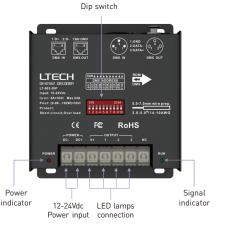
Product Size:

Unit: mm



Main Component Description:

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Dip Switch:



RDM Mode: The dip switch 1-10 are OFF.



DMX Mode: FUN=OFF (the 10th dip switch = OFF) Setting DMX addresses with dip switch 1-9

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Self-testing Mode: FUN=ON (the 10th dip switch=ON)

How to set DMX address via dip switch:

FUN=OFF (the 10th dip switch=OFF) DMX Mode

DMX address value = the total value of (1-9), to get the place value when in "on" position, otherwise will be 0.







* When Dip switch 1-9 are OFF, the defaulted initial DMX address is 1.

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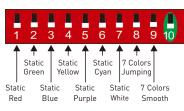
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Self-testing Mode:

FUN=0N (the 10th dip switch=0N) Self-testing Mode

Dip Switch										l .
Self-test	Static	7 Colors	7 Color							
Function	Black	Red	Green	Blue	Yellow	Purple	Cyan	White	Jumping	Smoot



For changing effects (Dip Switch 8/9=on): DIP switch 1-7 is used to realize 7 speed levels. (7=on, the fastest level)

[Attn] When several dip switches are on, subjected to the highest switch value.

As the figure above shows, the effect will be 7 colors smooth at 7 speed level.

DMX Dimming Instruction:

Each LT-903-DIP DMX decoder occupied 3 DMX addresses when connecting the DMX console.

E.g., the defaulted initial address is 1, please find their corresponding relationships in the form.

DMX Console DMX Decoder

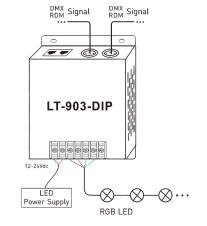
CH1 0-255 CH1 PWM 0-100% (LED R

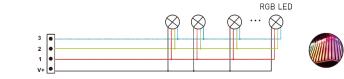
CH2 0-255 CH2 PWM 0-100% (LED G)

CH3 0-255 CH3 PWM 0-100% (LED B)

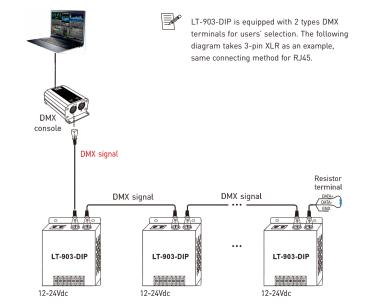
Wiring Diagram:

1 Connecting LED lights:



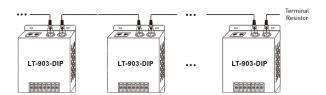


2. DMX console connection:

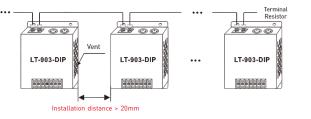


- An amplifier is needed if more than 32 decoders are connected or use overlong signal line, signal amplification should not be more than 5 times continuously.
- ★ If the recoil effect occurs because of longer signal line or bad line quality, please try to connect 0.25W 90-120Ω terminal resistor at the end of each line.

3. The connection diagram of 2 kinds of DMX/RDM terminals:



3-pin XLR Connected in Parallel



RJ45 Connected in Parallel

These 2 terminals can be connected in a mixed way.

* Installation Attention: please reserve enough ventilation distance between decoders (>20mm), be sure not to block the vent, or will affect lifetime of decoder for poor heat dissipation.

6 Update Time: 2017.07.06_A0